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# Topical ALA-photodynamic therapy for the treatment of acne vulgaris

W Hongcharu, CK Taylor, Y Chang ... - Journal of Investigative ... 2000 - nature.com  
... Bacterial **porphyrin** fluorescence was also suppressed by **photodynamic therapy**. ... gland function, and apparent decrease in follicular bacteria after **photodynamic therapy**. ... ALA, aminolevulinic acid; **PDT**, **photodynamic therapy**; PpIX, protoporphyrin IX; SO, sebum output. ...  
Cited by 253 - Related articles - BL Direct - All 5 versions

## Photodynamic therapy of acne vulgaris with topical $\delta$ -aminolaevulinic acid and incoherent light in Japanese patients

Y Itoh, Y Ninomiya, S Tajima. ... - British Journal of ... 2001 - Wiley Online Library  
... Repeated  $\delta$ -aminolevulinic acid-based **photodynamic therapy** for pigmented basal cell carcinoma. J Dermatol 2000; 27: 10 - 15. ... R. In vivo photoproduct formation during **PDT** with ALA-induced endogenous **porphyrins**. J Photochem Photobiol B 1993; 18: 287 - 90. ...  
Cited by 128 - Related articles - BL Direct - All 6 versions

## Acne phototherapy with a high-intensity, enhanced, narrow-band, blue light source: an open study and in vitro investigation

A Kawada, Y Aragane, H Kameyama... - Journal of ... 2002 - Elsevier  
... Topical ALA-**photodynamic therapy** is effective for **acne vulgaris** with significant side effects such as transient hyperpigmentation, superficial exfoliation, and ... Blue light therapy for acne may be a kind of **photodynamic therapy** using endogenous **porphyrins** produced by P ...  
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## Topical 5-aminolaevulinic acid **photodynamic therapy** for the treatment of skin conditions other than non-melanoma skin cancer

SH Ibbotson. British Journal of Dermatology, 2002 - Wiley Online Library  
... permeability of abnormal stratum corneum, relative iron deficiency and alterations in **porphyrin** enzyme profiles in ... NMSC, non-melanoma skin cancers; ALA, 5-aminolaevulinic acid; **PDT**, **photodynamic therapy**. ... **Acne vulgaris**. Keratoacanthoma, Epidermodysplasia verruciformis. ...  
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## Eradication of Propionibacterium acnes by its endogenic **porphyrins** after illumination with high intensity blue light

H Ashkenazi, Z Malik, Y Harth... - FEMS Immunology & ... 2003 - Wiley Online Library  
... **vulgaris** with visible light. Dermatology 194, 256-260. ... [34] Zeina, B., Greenman, J., Purcell, WM, Das, B. (2001) Killing of cutaneous microbial species by **photodynamic therapy**. Br. J. Dermatol. 144, 274-278. ... [35] Ramstad, S., Futsaether, CM, Johnsson, A. (1997) **Porphyrin** ...  
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## Treatment of cutaneous leishmaniasis with **photodynamic therapy**

OD Enk, C Fritsch, F Jonas... - Archives of ... 2003 - Am Med Assoc  
... recently demonstrated in a randomized double-blind trial of ALA-**PDT** for the ... 9 The use of **porphyrins** in combination with the quinonoid compound menadione causes ... **Photodynamic therapy** is an attractive antiparasitic therapeutic modality that offers rapid localized destruction ...  
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## A pilot study of ICG laser therapy of **acne vulgaris**: photodynamic and photothermolysis treatment

VV Tuchin, EA Genina, AN Bashkatov. ... - Lasers in surgery ... 2003 - Wiley Online Library  
... **Photodynamic therapy** (**PDT**) is a well-known procedure used for recovery of many abnormalities including tumors ... The main toxic agents produced by **PDT** are singlet oxygen or other reactive ... acnes colonies taken from the skin site at excitation of bacteria produced **porphyrins**. ...  
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## The study of endogenous **porphyrins** in human skin and their potential for **photodynamic therapy** by laser induced fluorescence spectroscopy

K König, H Meyer, H Schmeckenburger... - Lasers in Medical Science, 1993 - Springer  
... protoporphyrin. It seems to be possible to use the endogenous **porphyrins** for a **photodynamic therapy** of **acne vulgaris** and to monitor the therapeutic effect by the simultaneous measurement of spectral changes. INTRODUCTION ...  
Cited by 6 - Related articles - BL Direct - All 2 versions

## Photodynamic therapy and topical aminolevulinic acid: an overview

AK Gupta... - American Journal of Clinical ... 2003 - ingentaconnect.com  
... AK = actinic keratosis; **PDT** = photo- dynamic therapy. © Adis Data Information BV 2003. ... produce endogenous **porphyrins** (eg coproporphyrin III).[45] Coproporphyrin III can absorb visible blue light at 415nm, sug- ... of aminolevulinic acid/**photodynamic therapy** in **acne vulgaris**: ...  
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## Apparatus and method for high energy **photodynamic therapy** of **acne vulgaris** and seborrhea

Y Harth... - US Patent App. 09/750,130, 2001 - Google Patents  
... [0003] The enlargement and obstruction of sebaceous glands cause **acne vulgaris**. ... 410 nanometer range), or less efficiently, red (630-670 nanom- eter range) are able to induce a photodynamic effect in which the **porphyrins** in the ... [0005] **Photodynamic therapy** (**PDT**) is based ...  
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